

CHAPTER 1

Installing QGIS

Welcome to the QGIS project!

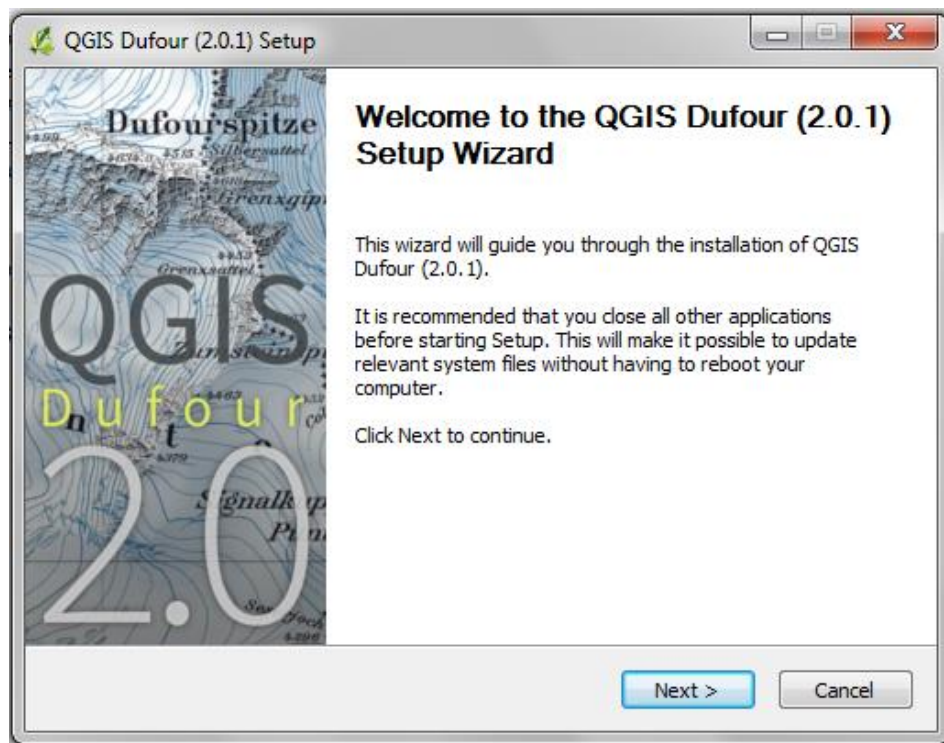
Quantum Geographic Information System (QGIS) is a free and open source GIS that allows geospatial data viewing, editing and analysis. QGIS is a volunteer driven project and is preferred over other GIS software because of its user-friendly interface, fast development and wide functionality. The version we will be learning in this training is QGIS 2.0.1. The software runs on Windows, Mac OSX, Linux and Android.

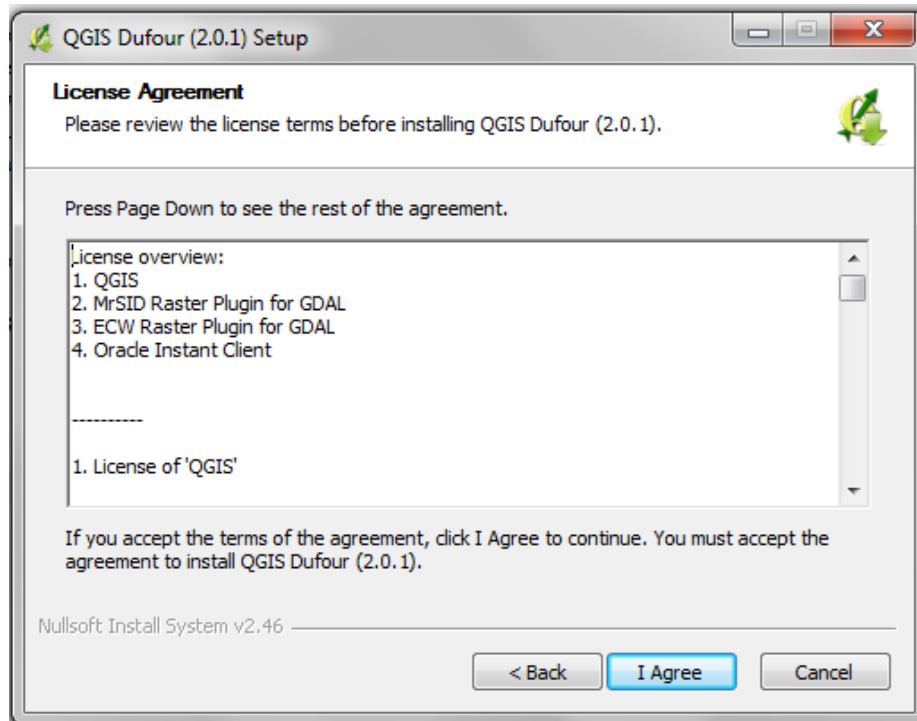
This chapter gives a quick overview on installing QGIS. Installation of QGIS is very simple. Standard installer packages are available for MS Windows and Mac OS X. You can download your version at <http://www.qgis.org/en/site/forusers/download.html>. For this exercise, the installer is in the training folder.

Windows

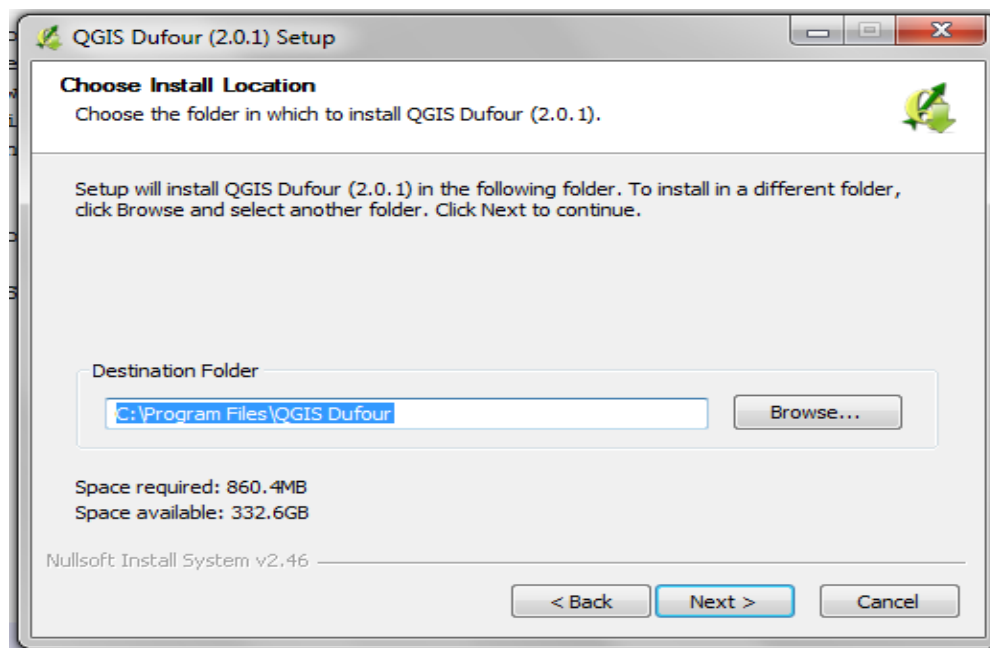
1. Double click the set up file “QGIS-OSGeo4W-2.0.1-Setup-x86.exe” to start the installation.

A dialog box as below will appear. Click “Next”.

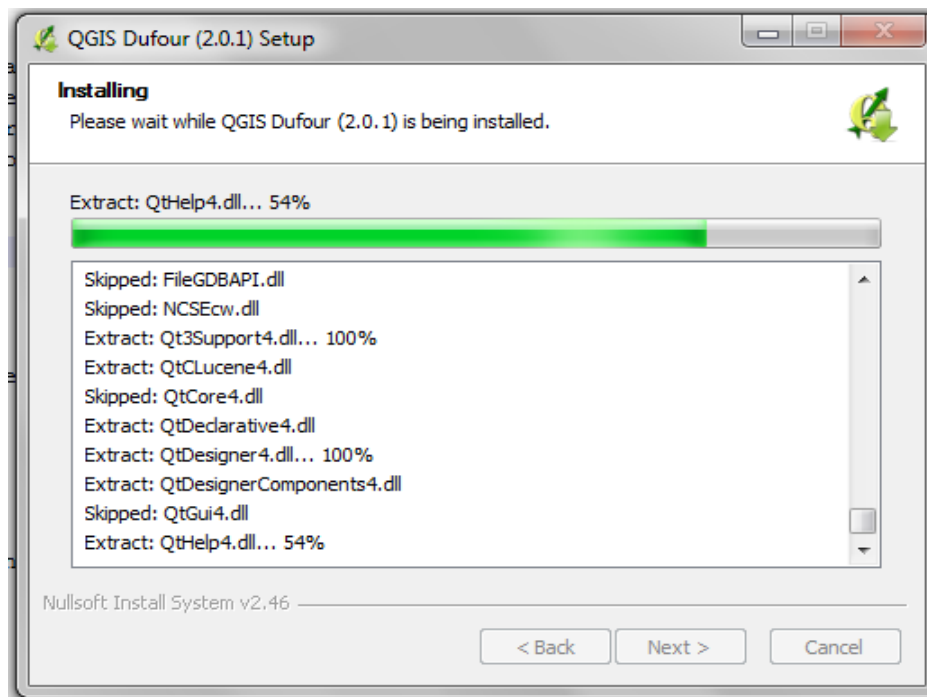




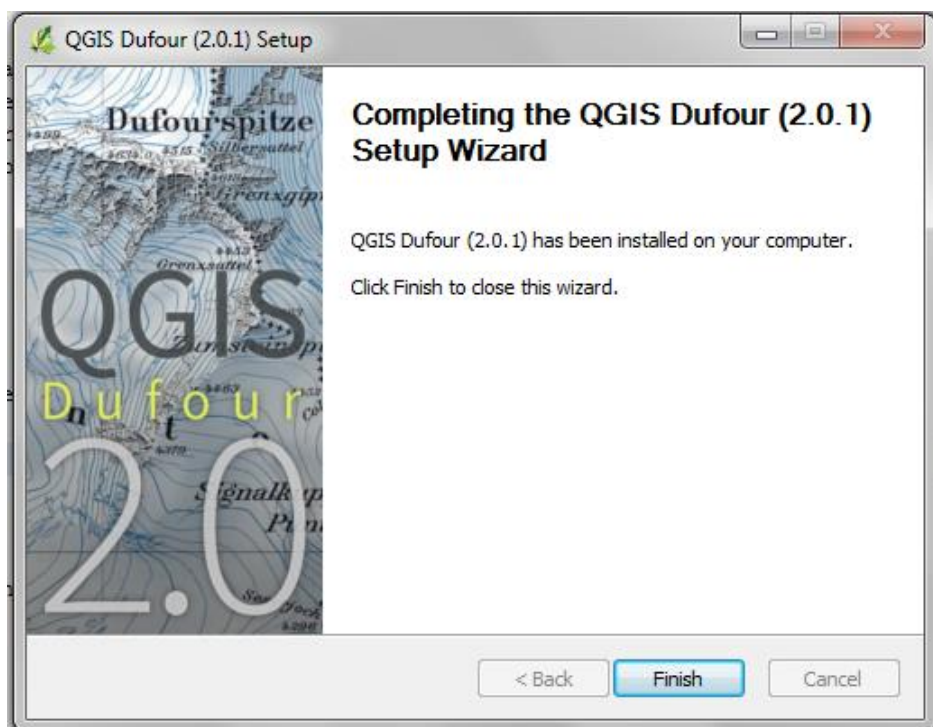
2. Click "I Agree" to Accept the License Agreement.
3. Click "Next" to install in default location or choose where to install QGIS in your system by selecting the appropriate directory using the Browse button.



A dialog box will ask you to choose additional features aside from the main QGIS application. We will not use the datasets for now. Uncheck the checkboxes and click “Install”. The installation will take a couple of minutes.



4. Click “Finish” to complete the installation process.



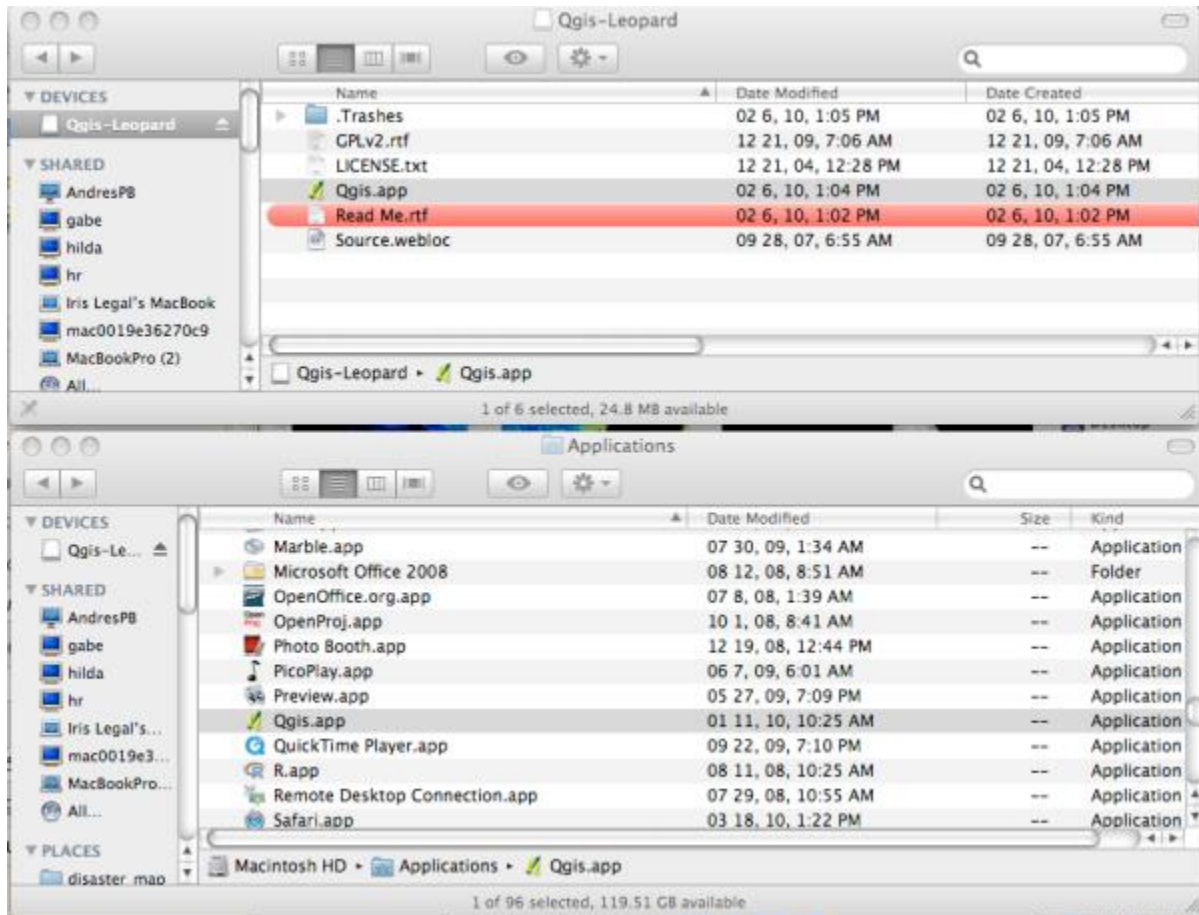
- Once the installation is complete an icon  will appear on your desktop. Double click the icon to start working.

Mac OS X

QGIS 2.0.1 requires separate installation of dependency frameworks (GDAL Complete and GSL). Click on the link below to download these frameworks

<http://www.kyngchaos.com/software/qgis> or receive your copy of downloaded files from the facilitators.

- Install all the required frameworks by double-clicking the “.dmg” files.
- To install QGIS, double-click the downloaded “.dmg” files. A new finder window will open. Copy or drag the Qgis.app to your Applications folder.



- Launch QGIS by double-clicking the *Qgis.app* from your *Applications* directory.
- To remove QGIS, drag the *Qgis.app* from your *Applications* directory to the *Trash* icon in your *Dock*.

1.3. GNU/Linux Ubuntu

Warning

Command line instructions are outlined from hereon. It is assumed you know basic command line interface (CLI) and you have administrative privilege to install applications in your Ubuntu Linux machine. Depending on your Ubuntu version, installation may vary. The instructions below are for Ubuntu Karmic Koala version.

1. Update your Ubuntu machine. Open Terminal and update all security updates:

```
sudo apt-get update  
sudo apt-get upgrade
```

2. Install QGIS using UbuntuGIS repository. Open Terminal and edit your repository list:

```
nano /etc/apt/sources.list
```

3. Add the UbuntuGIS repository (replace the karmic to your distribution version):

```
deb http://ppa.launchpad.net/ubuntugis/ubuntugis-unstable/ubuntu karmic main  
deb-src http://ppa.launchpad.net/ubuntugis/ubuntugis-unstable/ubuntu karmic main
```

4. Add PPA key to your system so Ubuntu can verify the packages from the PPA:

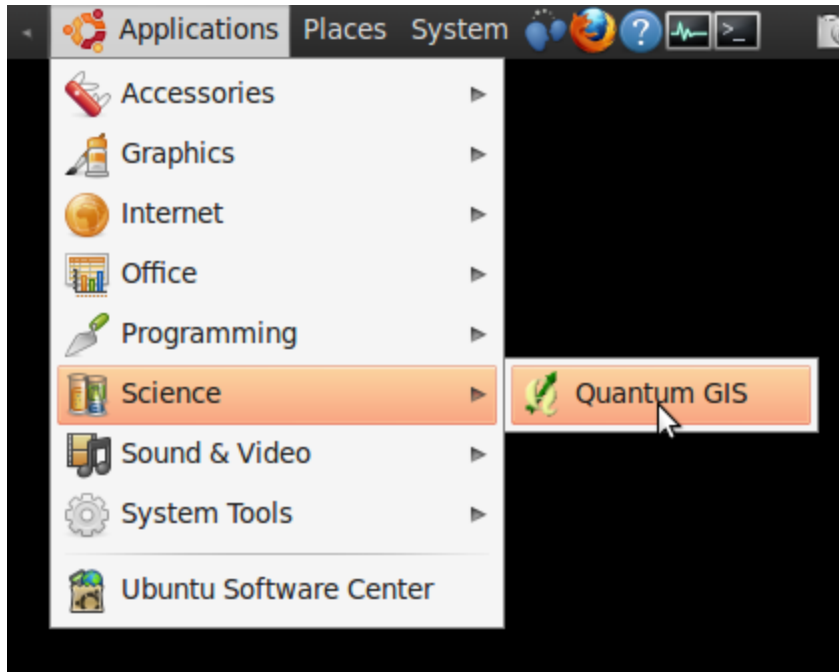
```
sudo apt-key adv --keyserver keyserver.ubuntu.com --recv-keys 314DF160
```

This will now pull down the PPA's key and add it to your system.

5. Install QGIS:

```
sudo apt-get update  
sudo apt-get install qgis qgis-common python-qgis
```

6. Start QGIS by hitting Applications → Science → Quantum GIS



*NOTE: There may be slight changes to installation process in newer versions.
Refer to online documentation.*

References

<http://www.qgis.org>